

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property  
Organization  
International Bureau



(43) International Publication Date  
28 April 2005 (28.04.2005)

PCT

(10) International Publication Number  
**WO 2005/037522 A1**

(51) International Patent Classification<sup>7</sup>: **B29C 45/72,**  
49/64

CORAN, Massimo [IT/IT]; Via Colombo 32, I-31027  
Spresiano (IT). PAVANETTO, Jader [IT/IT]; Via Martiri  
Di Marzabotto, 94, I-30174 Mestre (IT).

(21) International Application Number:  
PCT/EP2004/052456

(74) Agent: GERVASI, Gemma; Nobarbartolo & Gervasi  
S.p.A., Corso di Porta Vittoria 9, I-20122 Milan (IT).

(22) International Filing Date: 6 October 2004 (06.10.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:  
RM2003A000461 7 October 2003 (07.10.2003) IT

(71) Applicant (for all designated States except US): S.I.P.A.  
SOCIETÀ INDUSTRIALIZZAZIONE PROGET-  
TAZIONE AUTOMAZIONE S.p.A. [IT/IT]; Via Caduti  
del Lavoro 3, I-31029 Vittorio Veneto (IT).

(72) Inventors; and

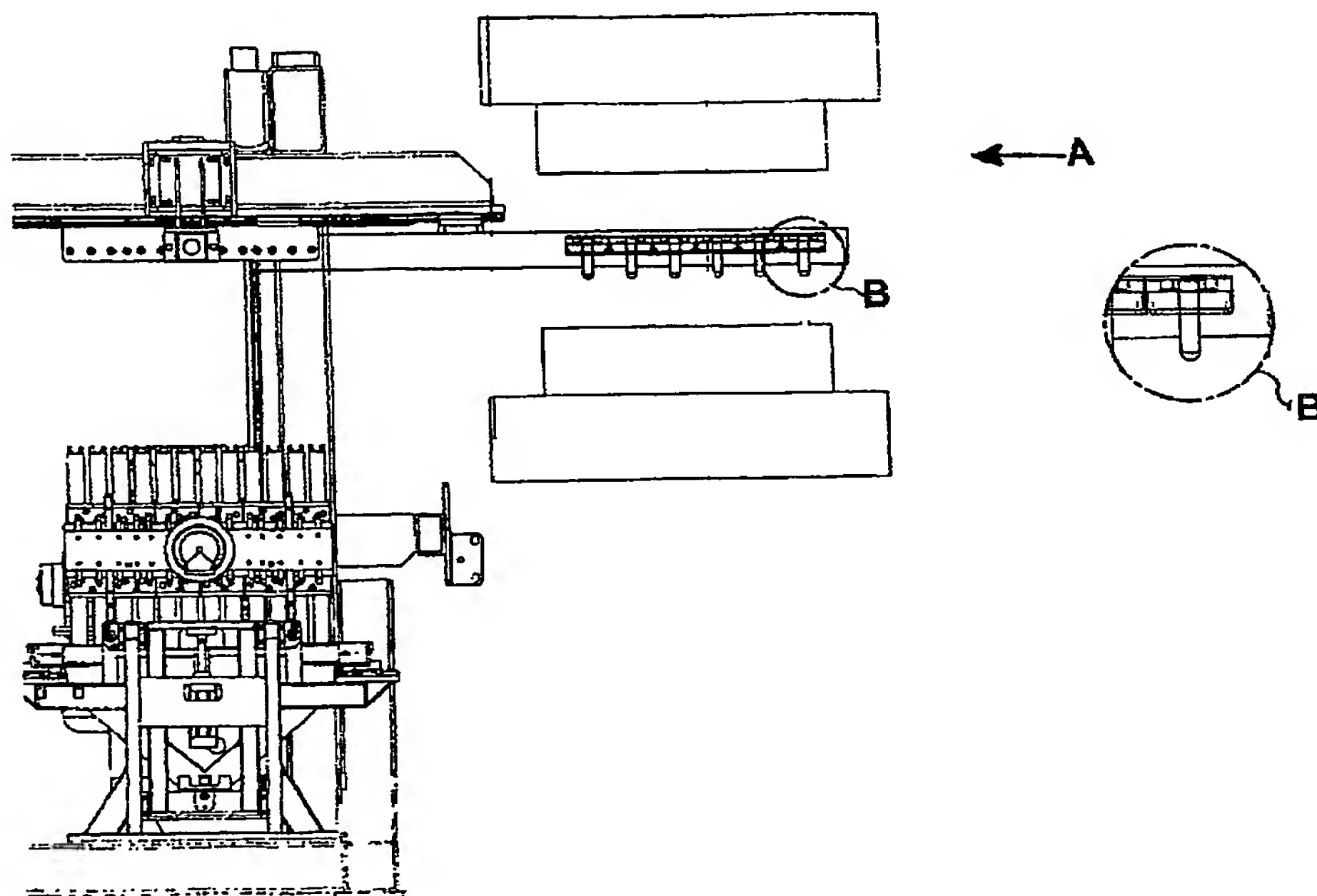
(75) Inventors/Applicants (for US only): ZOPPAS, Matteo  
[IT/IT]; Via S. Pellico, 46, I-33074 Fontana fredda (IT).

(81) Designated States (unless otherwise indicated, for every  
kind of national protection available): AE, AG, AL, AM,  
AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,  
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,  
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,  
KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,  
MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG,  
PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM,  
TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM,  
ZW.

(84) Designated States (unless otherwise indicated, for every  
kind of regional protection available): ARIPO (BW, GH,  
GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,  
ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),  
European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI,  
FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI,

[Continued on next page]

(54) Title: CONDITIONING DEVICE FOR PLASTIC ITEMS AND PROCESS



(57) Abstract: A device and process for conditioning plastic preforms (5) comprising a cooling turret (6) featuring faces fitted with many holders (7) for conditioning preforms (5). This turret rotates around a horizontal axis (X) and carries out a vertical traverse between a top position under an arm (3), which unloads the preforms from the mould, and a bottom position near the table for extracting the preforms (5) from the turret (6). The structure of the turret consists of two parallel bars (18, 19) and several joining plates (14) to which the bases of the holders (7) are attached.

WO 2005/037522 A1



SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

*For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.*

**Published:**

— *with international search report*